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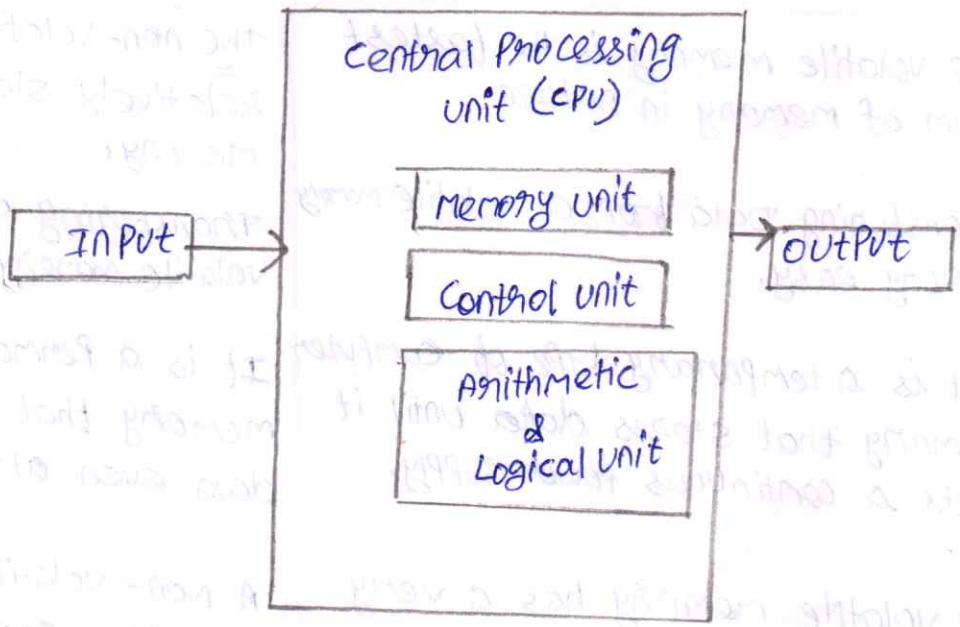
CCA-101 - FUNDAMENTALS OF IT & PROGRAMMING

ASSIGNMENT - 1

Q1.

The four fundamentals parts of computer are following below

- CPU - The Central Processing unit Processes all of the data that is accessed by the machine.
- RAM - Random access memory also known as main memory. Provides a buffer between hard drive and central Processing unit
- HARD DRIVE - A hard drive Provides a Permanent storage for the operating system, Programs and files on a machine
- MOTHER BOARD - The Motherboard is an underlying circuit board.



Q2. The classification of computers based on size and capacity are following below.

- Super Computer
- Mainframe computer
- Mini Computer
- Micro Computer

Q3. Generation in computer technology is change in technology a computer is being used. The generation term was used to distinguish between varying hardware technologies.

There are five generations in computer they are

- First Generation - vaccum tube based
- second Generation - Transistor based
- Third Generation - Integrated circuit based
- fourth Generation - MicroProcessor based
- fifth Generation - Artificial Intellegence (AI)

Q4.

S.NO	Volatile memory	Non-volatile memory
1)	The volatile memory is the fastest form of memory in nature	The non-volatile memory is relatively slower form of memory.
2.	Transfering Data from a volatile memory is very easy.	Transfering data from a non-volatile memory is very difficult
3.	It is a temporary type of computer memory that stores data until it gets a continuous power supply.	It is a Permanent type of computer memory that stores and retains data even after system Poweroff
4.	A volatile memory has a very low capacity	A non-volatile memory has a very high capacity.

Q5.

System Software	Application Software	Open Source Software
1) System software is used for operating computer hardware	Application software is used for perform specific task.	Open source software is free to use
2) System softwares are installed on computer's operating system.	Application software are used to installed based on user requirements.	It can be installed in a distribution manner
3) The user does not interact with system software.	The user interacts with Application software.	It is a low cost softw
4) System software can run independently.	Application software can't run independently	The code is accessible to everyone.

Q6.

a.

1.) Open MS-word document by click start → All Programs → MS-office → MS-word.

2.) Click on Blank document and type about yourself below Paragraph.

I am Duraivel from villupuram, I completed my UG in V.R.S college of Engineering and technology and I completed my schooling in vivekananda vidhyalaya matric higher secondary school.

3.) After completing about yourself save your document by click office button → save as → select location → give name "yourself" click save. Then the file got saved in the selected location in the given name.

Q6.

b.) Font Style

- To change the font style select the Home tab and locate the font group
- click the drop down arrow to next font style box by click on the style you can chang style but you should select the text before changing style.

Font size

- To change font size you locate the Home tab Font group In font group font size box is there click on the font size it will get changed.

Font color

- Select the text you want to change
- Locate the font group and select font color icon and select the color you want to change.

Font Highlight

- Select the text you want to highlight
- Access the text highlight icon and select the color you want to highlight the text.

Q7.)

i.) Open MS-word and click blank Document and type the below Paragraph.

MS word

MS word is a widely used commercial word Processor developed by Microsoft.

MS word is application software which is capable of

- creating
- saving and
- editing
- Printing any type of Document

2.) click save icon and give a file name as "ms_word" then the file is saved by the given name on the selected location.

Q.8.

1.) Create a new file on MS: word

2.) Enter a following Equation on the Document

Equations

$x_2 + y_5 = 30$

$z^3 + g^4 = 50$

$A_2 + B^8 = x_2 + y^8$

3.) After Entered the equations, click save the file and give the file name "equations".

Q.9.

1.) Select the text you want to convert

2.) Select the insert tab

3.) click on Table Command and then a dialog box appears

4.) click on convert Text to table, a new dialog box appears here set number of columns.

5.) Click OK, finally selected text convert into a table.

Q.10

1.) To create a new file click File → New
2.) To insert a table in a document, click Insert → Table
3.) Select the number of Rows and Columns, then the table will be inserted.

Q.11

1.) To create a worksheet in MS-EXCEL, click File → New
2.) The New worksheet created and enter the column name and Row details as given data.
3.) Then click File → Save as to save a worksheet by giving a filename and select a location where you want to save.

Q.12

i) Sum of marks (C2 : C11)

The Sum of marks using AutoSum in a range of cells (C2:C11) is 654

ii) Average of the marks in a range of cells (C2:C11)

The Average of marks in a range of cells (C2:C11) is 65.4

iii) Highest Marks in a range of cells (C2:C11)

The highest marks in a range of cells (C2:C11) is 90

iv) Minimum marks in a range of cells (C2:C11)

The minimum marks in a range of cells (C2:C11) is 40

v) To Add New Slide click New Slide option you can Add Slide by choosing layouts of Slide.

Q.15

i) Create a new slide and enter the title and create a bullets using insert menu and create a list.

ii) To insert excel sheet, click Insert → Object then Browse the excel file and click ok.

iii) To insert clip art click on Insert → Pictures → Select clip art.

To insert text by click on Insert → Text then type the text you want to add.

iv) To add Slide show effects select Transitions Tab and click on the effects and choose the effects for the slide.

PART - 2

Q.16

High Level Language	Machine Language
i) High level language is a Programming Language that uses English and Symbols.	Machine language is a language that only understands by Computer.
ii) All instructions use binary notations	It uses a Program language for every operation.

High Level Language	Machine Language
iii) It is a Programmer friendly language	It is a Machine friendly Language
iv) It requires a compiler	It does not requires a compiler
v) It is easy to debug	It is not easy to debug.

Q.17

The Data types of C Programming Language are following below.

i) Integer - 5, 6, 7
ii) character - x, y, z
iii) Double - 58, 60
iv) Floating Point - 40.1, 67.8
v) void.

Q.18

a.) $x = 20/5*2+30-5$
$= 4*2+30-5$
$= 8+30-5$
$= 38-5$
$= 33$

b.) $X = 30-(40/10+6)+10$
$= 30-(4+6)+10$
$= 30-10+10$
$= 40-10$
$= 30$

c.) $z = 40 * 2 / 10 - 2 + 10$

$= 40 * 0.2 - 2 + 10$

$= 8 - 2 + 10$

$= 18 - 2$

$= 16$

Q19

a.)

If-else Statement Syntax

```
if (boolean expression) {
/* statement will execute if the boolean expression is true */
} else {
/* statement will execute if the boolean expression is false */
}
```

b.) For Loop

```
for (initialization statement; testExpression; update statement)
  {
    // statements inside body of loop
  }
```

c.) While Loop

```
while (condition) {
statements ();
}
```

d.) do - while Loop

```
do {
statement(s);
} while (condition);
```

Q20.

a.)

output:

IMS Ghaziabad

b.)

output:

IMS Ghaziabad
IMS Ghaziabad

c.) output:

Largest number is 100